

**SCHEDULE - A**  
**GUARANTEED TECHNICAL PARTICULARS**  
**33 Kv DISC INSULATOR B & S TYPE**

Sl. No.	Description	Unit	33 Kv Disc. String B & S type insulator EMS - 70KN.
1	Disc Diameter	mm	255
2	Disc spacing	mm	145
3	Creepage distance		
	(a) Total	mm	840
	(b) Protected	mm	420
4	Combined electromechanical strength.	Kgs.	7,000
5	Dry one minute power frequency withstand	Kv	75
6	Wet one minute power frequency withstand.	Kv	
7	Dry power frequency flashover.	Kv	
8	Wet power frequency flashover.	Kv	
9	Dry impulse withstand positive & negative.	Kv (Peak)	170
10	Impulse flashover 1 x 50 microsecond (Positive)	Kv (Peak)	
11	Impulse flashover 1 x 50 microsecond (Negative)	Kv (Peak)	
12	Power frequency puncture voltage	Kv	1.3 times the actual drive flashover voltage of the unit.
13	High system voltage.	Kv	36
14	Visible Discharge voltage.	Kv	27
15	Weight/Unit.	Kg.	
16	Marking :--	Each insulator will be legibly marked to show the following :	
		(a) Name of the Purchaser :-- WESCO	
		(a) Name or trademark :--	
		(c) Month & year of manufacturing :--	
		(d) Minimum failing load.	
	PACKING: -- All insulators shall be packed suitably for easy but rough handling & acceptable for road transport. Where more than one insulator is packed in a crate, separator shall be fixed between the insulators to keep individual insulator in position without movement in the crate.		

**SCHEDULE - A**  
**GUARANTEED TECHNICAL PARTICULARS**  
**11 Kv & 33 Kv PIN INSULATOR**

Sl. No.	Description	11 Kv PIN INSULATOR	33 Kv PIN INSULATOR
1	Normal working voltage	11 Kv (rms)	33 Kv (rms)
2	High system voltage.	12 Kv (rms)	36 Kv (rms)
3	Visible Discharge voltage dry PF.	9 Kv (rms)	27 Kv (rms)
4	1 Minute withstand voltage wet PF.	65 Kv (rms)	95 Kv (rms)
5	1 Minute withstand voltage.....	35 Kv (rms)	75 Kv (rms)
6	PF puncture withstand voltage.	110 Kv (rms)	180 Kv (rms)
7	Impulse withstand voltage :		
	(+ ve)	80 Kv peak	205 Kv peak
	(- ve)	80 Kv peak	240 Kv peak
8	Impulse flashover voltage :		
	(+ ve)	90 Kv peak	205 Kv peak
	(- ve)	120 Kv peak	240 Kv peak
9	Minimum failing load.	5 KN.	10 KN.
10	Minimum creepage distance.	240 mm.	580 mm.
11	Colour of glaze.	Brown.	Brown.
12	Weight per unit.	1.4 Kg. (Apprx.)	8.6 Kg. (Apprx.)
13	Size of insulator. (Height)	125 mm.	225 mm.
	(Diameter)	125 mm.	285 mm.
14	Material of thimble.	Lead.	Lead.
15	Steel head.	Small head.	Large head.
16	Standard.	IS : 731/1971.	IS : 731/1971.
17	Tolerance.	Tolerance will be allowed as per IS : 731/1971 or latest amendments if any.	
18	Marking :-	Each insulator will be legibly marked to show the following :	
		(a) Name of the Purchaser :- WESCO	
		(b) Name or trademark :-	
		(c) Month & year of manufacture :-	
		(d) Minimum failing load.	

**PACKING :-** All insulators shall be packed in wooden crates suitable for easy but rough handling & acceptable for road transport. Where more than one insulator are packed in a crate, separator shall be fixed between the insulators to keep individual insulator in position without movement in the crate.

**SCHEDULE - A**  
**GUARANTEED TECHNICAL PARTICULARS**  
 11 Kv Disc. String T & C type insulator EMS - 45KN.

Sl. No.	Description	Unit	11 Kv Disc. String T & C type insulator EMS - 45KN.	
1	Disc Diameter	mm	255	
2	Disc spacing	mm	145	
3	Creepage distance			
	(a) Total	mm	290	
	(b) Protected	mm	170	
4	Combined electromechanical strength.	Kgs.	4,550	
5	Dry one minute power frequency withstand	Kv	70	
6	Wet one minute power frequency withstand.	Kv	40	
7	Dry power frequency flashover.	Kv	80	
8	Wet power frequency flashover.	Kv	50	
9	Dry impulse withstand positive & negative.	Kv (Peak)	75	
10	Impulse flashover 1 x 50 microsecond (Positive)	Kv (Peak)	125	
11	Impulse flashover 1 x 50 microsecond (Negative)	Kv (Peak)	130	
12	Power frequency puncture voltage	Kv	110	
13	High system voltage.	Kv	12	
14	Visible Discharge voltage.	Kv	9	
15	Weight/Unit.	Kg.	5.8 (Apprx.)	
16	Marking :-	Each insulator will be legibly marked to show the following :		
		(a) Name of the Purchaser :- WESCO		
		(a) Name or trademark :-		
		(c) Month & year of manufacturing :-		
		(d) Minimum failing load.		
	PACKING: -- All insulators shall be packed suitably for easy but rough handling & acceptable for road transport. Where more than one insulator is packed in a crate, separator shall be fixed between the insulators to keep individual insulator in position without movement in the crate.			